

TOP SECRET 666660

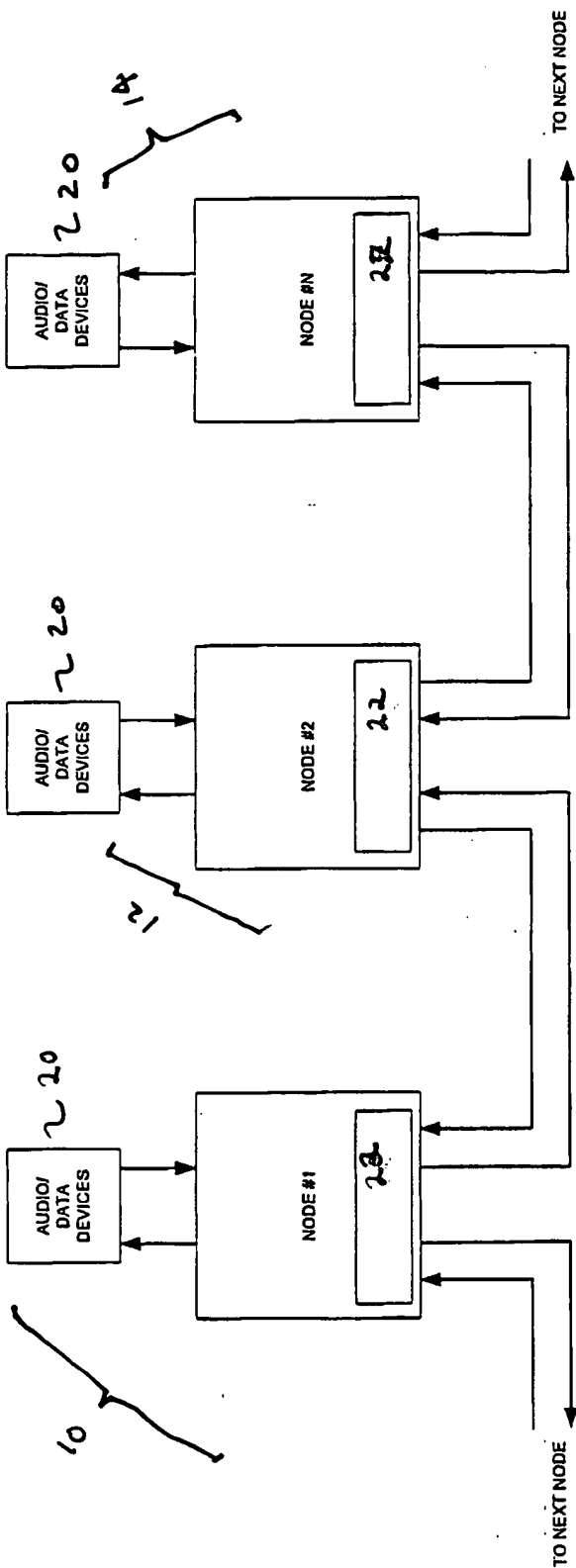


FIG. 1



#3

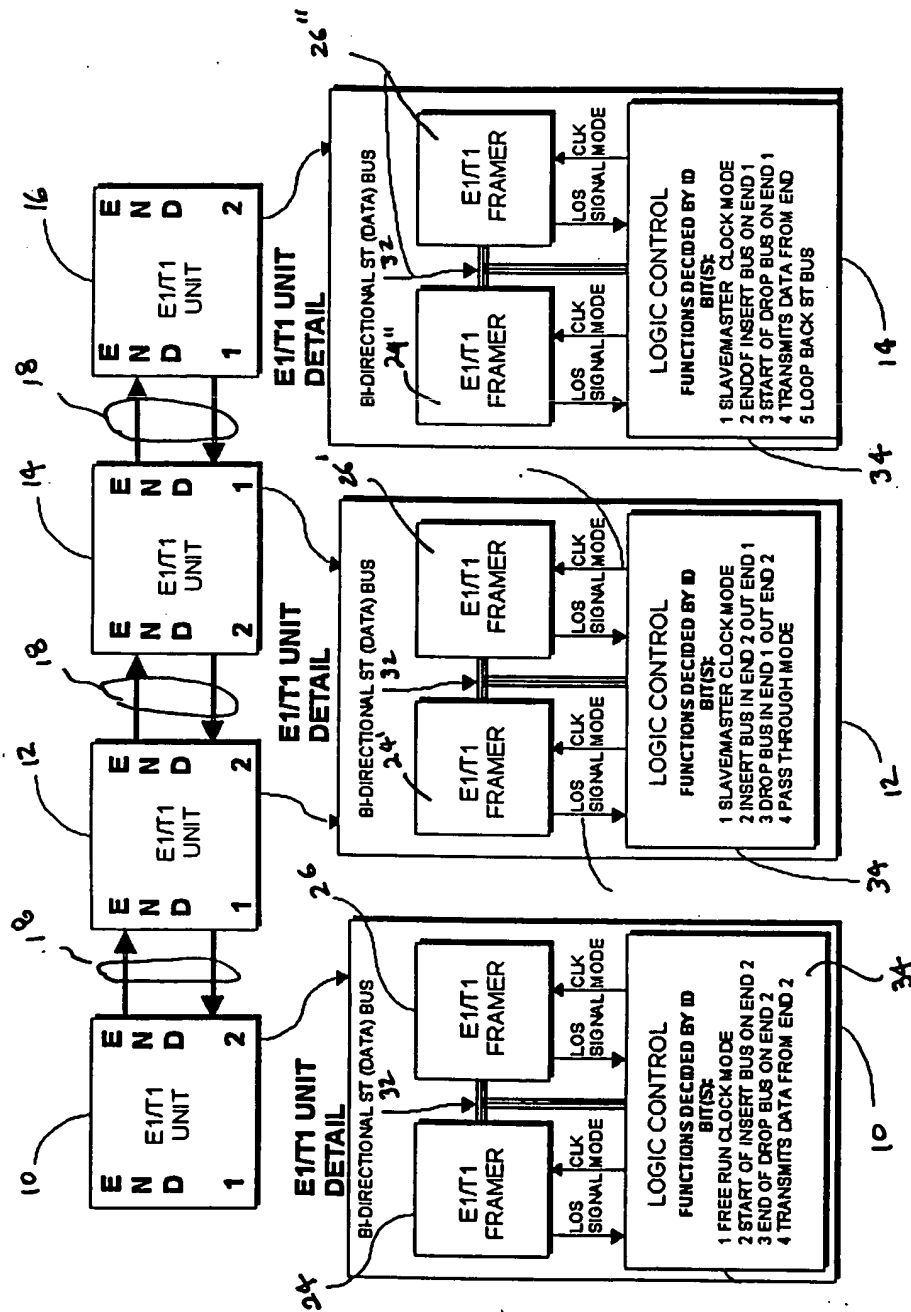
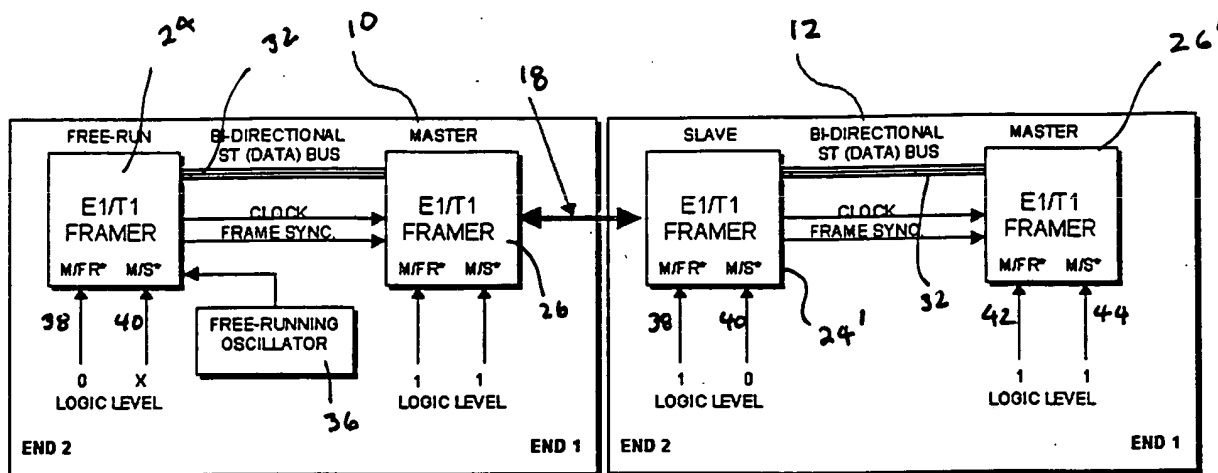


Fig. 2

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FIG 3



FRAMER CHIP  
MODE CONTROL  
TABLE

INPUT SIGNAL PIN NAME	MODE			
	FREE RUN	SLAVE	FREE RUN	MASTER
MASTER-SLAVE/NOT FREE RUN	0	1	0	1
MASTER-NOT SLAVE	X	0	X	1
LOGIC LEVEL				

Fig. 3 A

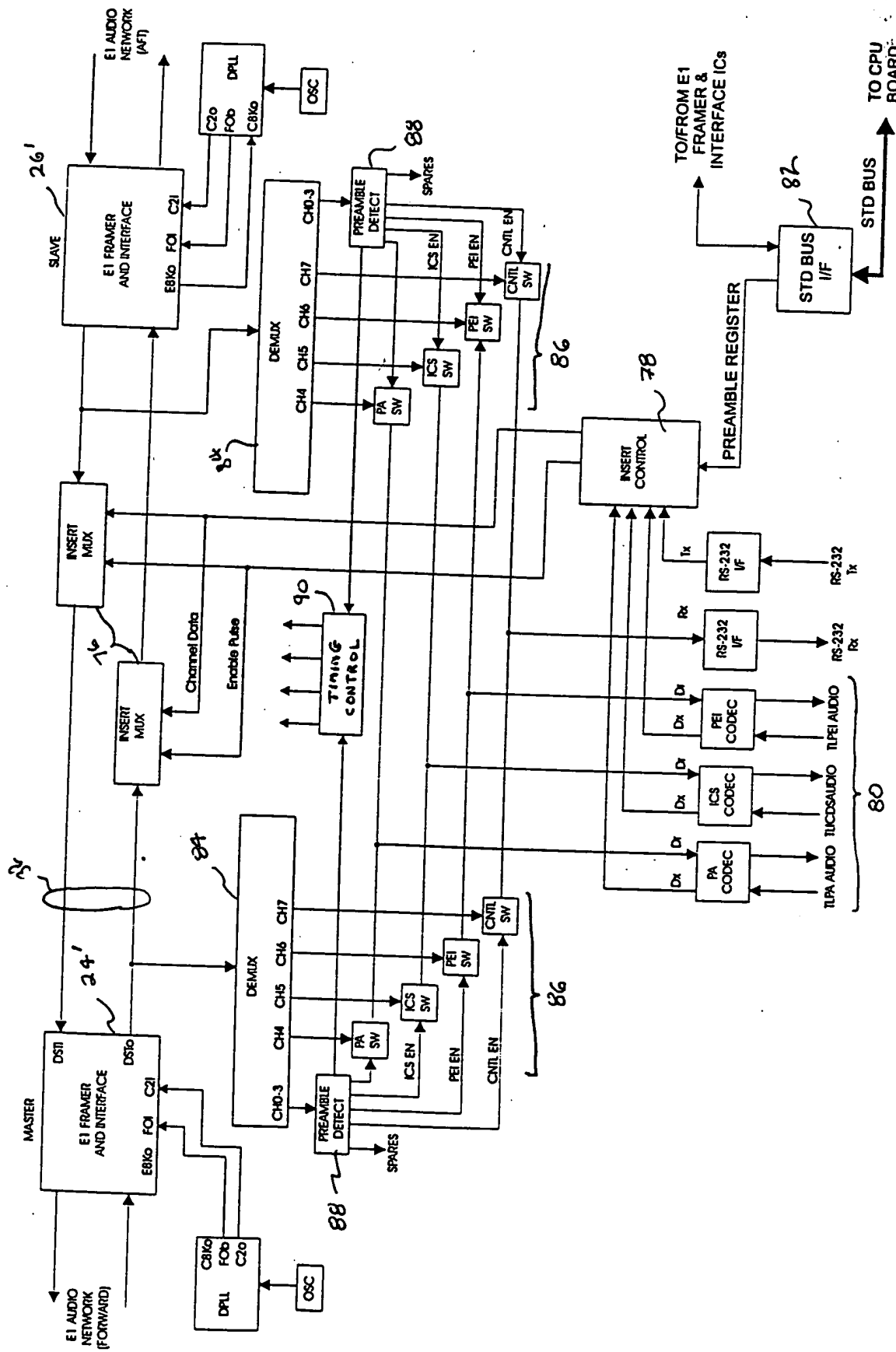


FIG. 4

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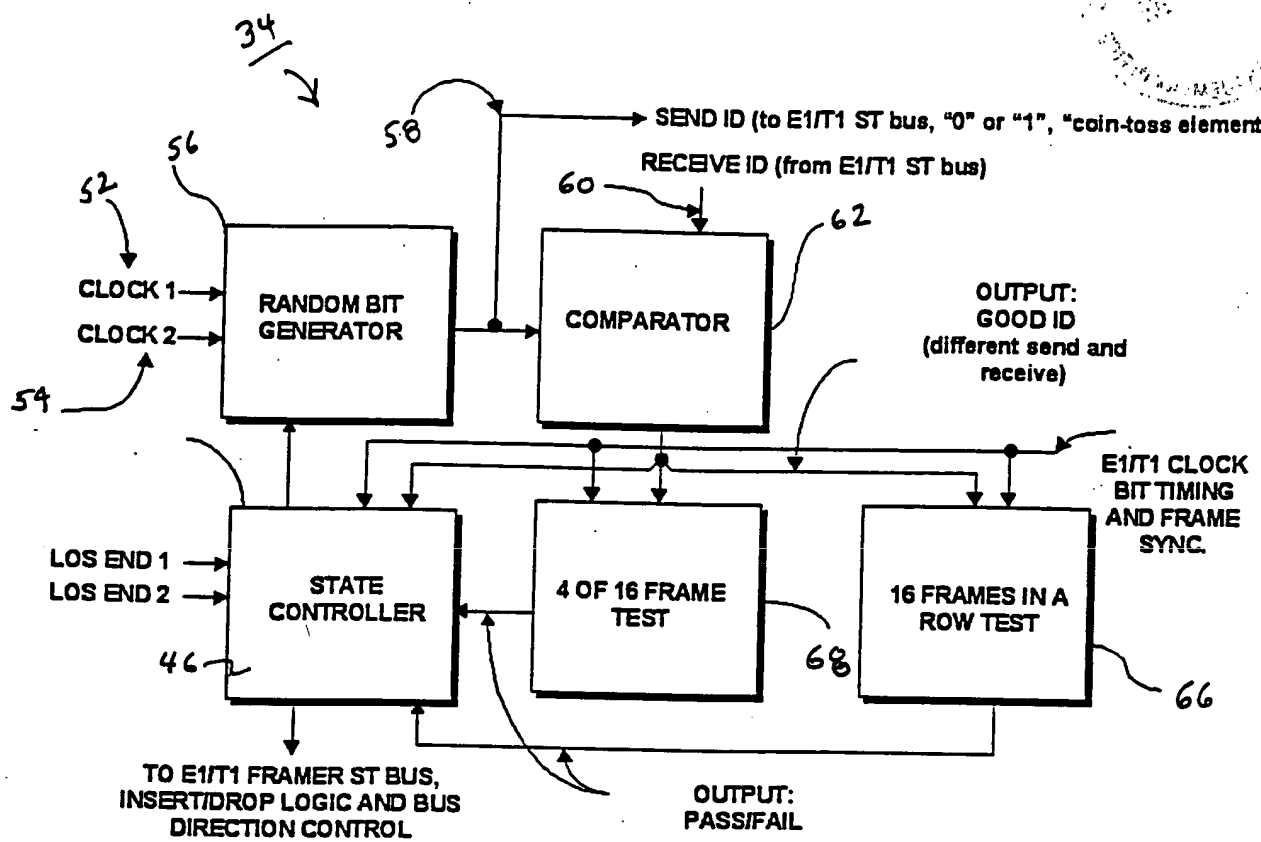


Fig. 5

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graph TD
    WAIT[50 WAIT  
WAITS FOR THE LOS  
TO BECOME STABLE  
AND FOR THE UNITS  
SELF TEST TO END]
    VERIFY[70 VERIFY  
ARE THE SEND AND  
RECEIVE ID BITS  
DIFFERENT? IF YES THE  
END UNITS HAVE  
FINISHED THE ID  
EXCHANGE]
    ID_EXCHANGE[64 ID EXCHANGE  
THE ID EXCHANGE  
TAKES PLACE UNTIL  
THEY ARE DIFFERENT  
FOR 16 CONSECUTIVE  
FRAMES]
    RUN[72 RUN  
THIS IS THE NORMAL  
OPERATIONAL MODE]

    WAIT -- "THE ID BITS ARE THE SAME FROM BOTH ENDS (74)" --> VERIFY
    WAIT -- "THE LOS SIGNAL IS PRESENT FROM ONLY ONE END SO THIS UNIT TAKES PLACE IN THE ID EXCHANGE" --> ID_EXCHANGE
    VERIFY -- "THE LOS SIGNAL IS PRESENT FROM BOTH ENDS SO THIS UNIT DOES NOT TAKE PLACE IN THE ID EXCHANGE" --> WAIT
    VERIFY -- "THE LOS SIGNAL WAS LOST FROM END 1 AND END 2 OR THE RECEIVED ID WAS THE SAME AS THE ONE BEING SENT FOR AT LEAST 4 OUT OF 16 FRAMES" --> ID_EXCHANGE
    ID_EXCHANGE -- "THE SEND ID AND RECEIVE ID HAVE BEEN DIFFERENT FOR 16 CONSECUTIVE FRAMES" --> WAIT
    ID_EXCHANGE -- "THE IDS ARE DIFFERENT FROM BOTH ENDS (66)" --> RUN
  
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**Fig. 6**

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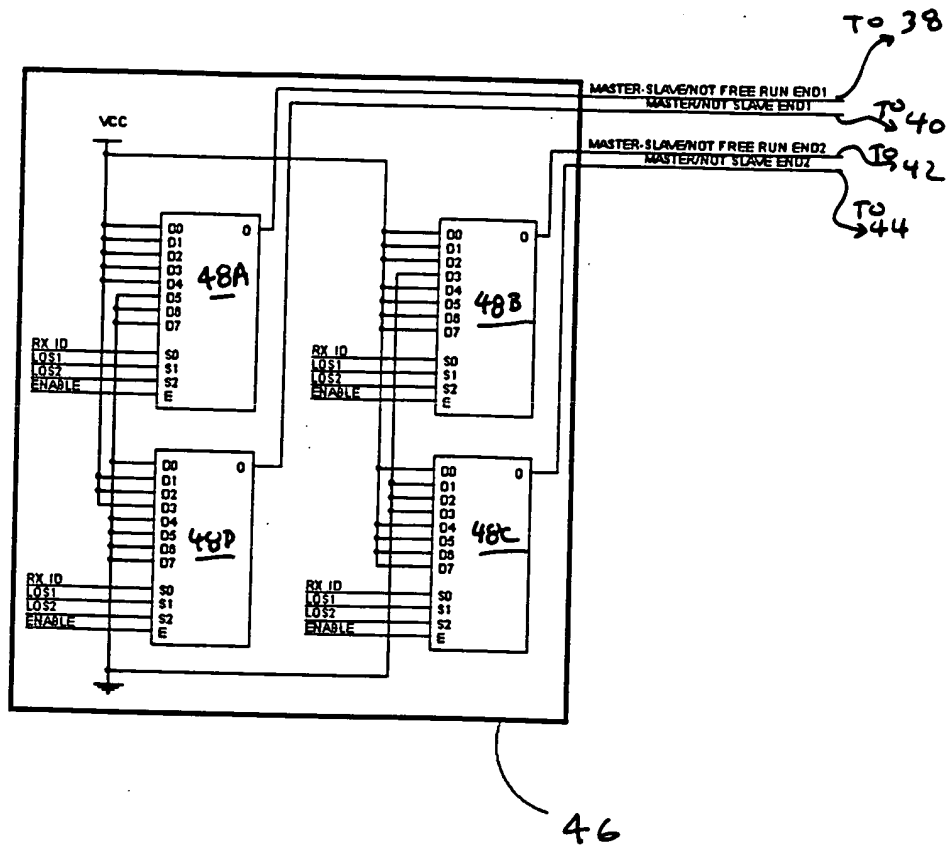


Fig. 7

Fig 7A

Mode Table

LOS1	LOS2	Rx	Address	Master	Slave	Free-run
0	0	0	0	end 2	end 1	
0	0	1	1	end 1	end 2	
0	1	0	2	end 1	end 2	
0	1	1	3	end 1		end 2
1	0	0	4	end 2	end 1	
1	0	1	5	end 2		end 1
1	1	0	6			
1	1	1	7			

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